AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

(Currently amended) A sprinkler, comprising:

a housing fitted with an inlet port connectable to a water supply line and extending into

an inlet chamber;

a hollow stem member with an inlet end thereof being in flow communication with said

inlet chamber and an outlet end thereof being in flow communication with an irrigation head;

and

a diaphragm seal sealingly fixed at peripheral boundaries thereof to the housing and

sealingly articulated to the stem member and supporting the stem member in an essentially

upright position,

said diaphragm being deformable between a first retracted position in which the

irrigation head is retracted within the housing and a second operative position in which the

irrigation head projects from and outside the housing, the stem member being radially

supported to enable only sliding displacement in an axial direction from the inlet chamber

towards the irrigation head without any tilt or rotation.

wherein the diaphragm is fully contained within the housing in both the first and second

positions.

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2. (Previously presented) The sprinkler according to claim 1, wherein the stem member

and the irrigation head are axially displaceable within the housing, respective to deformation of

the diaphragm seal.

3. (Previously presented) The sprinkler according to claim 1, wherein the diaphragm seal

is a beveled annular disc made of an elastic material.

4. (Previously presented) The sprinkler according to claim 1, wherein the housing

comprises a shielding portion accommodating at least a portion of the stem member, and the

irrigation head.

5. (Previously presented) The sprinkler according to claim 4, further comprising a cover

member articulated to one of the stem member and the irrigation head, whereby the shielding

portion is closable by said cover member in the first position.

6. (Previously presented) The sprinkler according to claim 4, wherein the shielding portion

is formed with one or more drain ports.

7. (Previously presented) The sprinkler according to claim 6, wherein the one or more

drain ports are sealed in the first position.

8. (Previously presented) The sprinkler according to claim 7, wherein in the first position a

portion of the stem or of an articulated bridge portion displaces into sealing engagement with

the one or more drain ports.

9. (Previously presented) The sprinkler according to claim 1, being a rotary sprinkler fitted

with a reactionary rotatable sprinkler head.

10. (Previously presented) The sprinkler according to claim 9, wherein the sprinkler head is

formed with an axial boss rotatably received within a corresponding bushing receptacle

formed at a top of a bridge member articulated to the stem member.

11. (Withdrawn) A sprinkler according to claim 9, wherein a bridge member articulated to

the stem member is formed with an axial boss rotatably received within a corresponding

bushing receptacle formed in the sprinkler head.

12. (Withdrawn) A sprinkler according to claim 9, wherein the stem member is fitted at its

outlet end with a swivel member supporting the rotatable sprinkler head.

13. (Withdrawn) A sprinkler according to claim 12, wherein the swivel member is articulated

over the outlet end of the stem member by a snap-type engagement.

14. (Withdrawn) A sprinkler according to claim 1, wherein the irrigation head is bridgeless.

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15. (Withdrawn) A sprinkler according to claim 14, wherein the irrigation head is fitted over

a swivel freely rotatable over the outlet end of the stem member.

16. (Withdrawn) A sprinkler according to claim 15, wherein the irrigation head is attached to

the swivel by a snap-type engagement.

17. (Withdrawn) A sprinkler according to claim 16, wherein the swivel is retained over the

stem member by a snap-type engagement and where the irrigation head is snappingly

mounted over the swivel to prevent spontaneous detachment thereof.

18. (Previously presented) The sprinkler according to claim 1, wherein the inlet port is fitted

with a filter.

19. (Previously presented) The sprinkler according to claim 1, wherein the inlet chamber is

fitted with a flow control assembly.

20. (Previously presented) The sprinkler according to claim 19, wherein the flow control

assembly comprises a flexible membrane retained within the inlet chamber which, responsive

to pressure differential thereover, is deformable to constrict the cross section area of a liquid

flow path into the inlet end of the stem member.

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21. (Previously presented) The sprinkler according to claim 19, wherein the flow control

assembly is axially displaceable along with the stem member.

22. (Previously presented) The sprinkler according to claim 20, wherein in the first position

the flexible membrane bears against the inlet port, thus serving as a leak preventing device.

ensuring the inlet port is sealed until water pressure at the inlet port reaches a minimal

nominal pressure.

23. (Previously presented) The sprinkler according to claim 1, wherein the sprinkler is fitted

with a differential pressure control assembly comprising a differential pressure membrane

received within the inlet chamber and supported adjacent the inlet end of the stem member.

wherein said membrane deforms responsive to pressure differential between an inlet

face thereof and an outlet face thereof to thereby vary a through-flow path into said inlet end

of the stem.

24. (Previously presented) The sprinkler according to claim 1, wherein the diaphragm seal

divides the housing into a pressurized zone on its one side facing the inlet port, and an

essentially atmospheric pressure zone on its other side.

25. (Previously presented) The sprinkler according to claim 1, wherein the housing is

suitable for suspending in an inverted position with the inlet port up and the irrigation head

down.

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26. (Previously presented) The sprinkler according to claim 1, wherein the diaphragm seal

is biased into its first position.

27. (Previously presented) The sprinkler according to claim 1, wherein the diaphragm seal

is biased by a coiled spring bearing at a first end against a portion of the housing and at a

second end against a portion of the stem member.

28. (Previously presented) The sprinkler according to claim 1, wherein in its second

position the diaphragm seal bears against a corresponding supporting surface of the housing.

29. (Previously presented) The sprinkler according to claim 1, wherein the diaphragm seal

is sealingly retained over an annular groove of the stem member.

30. (Previously presented) The sprinkler according to claim 1, wherein the diaphragm seal

is articulated to the stem member eliminating radial and axial tolerance.

31. (Previously presented) The sprinkler according to claim 1, wherein the stem member

has an inlet portion thereof extending into the inlet chamber for supporting a flexible

diaphragm which responsive to pressure differential is deformable to constrict a cross section

area of a liquid flow path into the inlet end of the stem member.

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32. (Previously presented) The sprinkler according to claim 1, wherein the diaphragm seal

is substantially un-tensed in either of its two respective positions.

33. (Previously presented) The sprinkler according to claim 1, wherein the diaphragm seal

is beveled.

34. (Previously presented) The sprinkler according to claim 33, wherein the beveled

diaphragm seal toggles into its respective first and second positions.

35. (Previously presented) The sprinkler according to claim 33, wherein the beveled

diaphragm seal comprises an outer peripheral portion for clamp engagement to the housing,

an inner peripheral portion for annularly arresting the stem member, and a beveled portion

intermediate said peripheral portions.

36. (Withdrawn) A sprinkler according to claim 1, wherein the diaphragm seal has a

ziggurat-like shape.

37. (Withdrawn) A sprinkler according to claim 36, wherein the diaphragm seal comprises

alternating first and second portions, said first portions being substantially vertical and said

second portions being inclined.

38. (Withdrawn) A sprinkler according to claim 37, wherein said first portions remain

substantially vertical at in the first and second positions of the sprinkler.

39. (Withdrawn) A sprinkler according to claim 37, wherein at the second position at least

said first and said second portions bear against corresponding support portions of the

housing.

40. (Withdrawn) A sprinkler according to claim 1, wherein the diaphragm seal has a

bellows-like shape.

41. (Withdrawn) A sprinkler according to claim 1, wherein the diaphragm seal is an elastic

member pre-tensed and biased into its first position.

42. (Previously presented) The sprinkler according to claim 1, wherein axial displacement

of the stem member is restricted by a shoulder of the stem member engageable with a

corresponding bearing surface of the housing.

43. (Previously presented) The sprinkler according to claim 1, wherein the housing further

comprises an attachment for articulation to a support.

44. (Withdrawn) A sprinkler according to claim 1, wherein the outlet end of the stem

member is fittable with replaceable nozzles, each having a different nominal flow rate.

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**45.** (Previously presented) The sprinkler according to claim 1, wherein the stem member is

fitted, adjacent the outlet end thereof, with inwardly projecting radial flow straightening fins.

46. (Previously presented) The sprinkler according to claim 1, wherein the stem member is

supported within the housing in a fashion allowing only axial displacement thereof.

47. (Canceled)

48. (Previously presented) The sprinkler according to claim 1, comprising a cover member

serving for two or more functions, the functions comprising closing a shielding portion of the

housing, serving as a bridge for supporting the irrigation head at an end thereof remote from

an outlet nozzle, receiving the outlet nozzle, rotatably supporting the irrigation head, and

closing draining ports of the housing in the first position.

49. (Withdrawn) A sprinkler according to claim 1, comprising a cover member supporting

the irrigation head and fitted for closing the housing at the first position.

**50.** (Withdrawn) A sprinkler according to claim 1, comprising a cover member fitted with the

irrigation head being in flow communication with the outlet end of the stem member.

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51. (Withdrawn) A sprinkler according to claim 1, comprising a bridge member integrally

fitted with an outlet nozzle being in flow communication with the outlet end of the stem

member.

52. (Previously presented) The sprinkler according to claim 1, wherein the irrigation head

substantially retains its axial position with respect to the stem member, in the two respective

positions.

53. (Previously presented) The sprinkler according to claim 1, fitted for an upright or an

inverted position.

54. (Previously presented) The sprinkler according to claim 52, wherein a hook is provided

for suspension of the sprinkler in an upright position or inverted position.

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55. (Currently amended) A sprinkler, comprising:

a housing fitted with an inlet port extending into an inlet chamber and comprising

a beveled diaphragm seal having a first face thereof exposed to pressure

within the inlet chamber and a second face exposed to atmospheric pressure;

and

a stem member articulated to said beveled diaphragm seal and having an

inlet end thereof extending into the inlet chamber and having an outlet end

articulated to an irrigation head,

wherein the diaphragm seal is normally retained in a first toggle position where the

sprinkler head is concealed within the housing,

wherein water pressure within the inlet chamber deforms the beveled diaphragm seal

into a second toggle position where the sprinkler head axially displaces and projects from the

housing, the stem member being radially supported to enable only sliding displacement in an axial direction from the inlet chamber towards the irrigation head without any tilt or rotation,

and

wherein the diaphragm is fully contained within the housing in both the first and second

toggle positions.

56. (New) A pop-up sprinkler, comprising:

a housing fitted with an inlet port connectable to a water supply line and extending into

an inlet chamber;

a hollow stem member with an inlet end thereof being in flow communication with

said inlet chamber and an outlet end thereof being in flow communication with an irrigation

head;

a diaphragm seal sealingly fixed at peripheral boundaries thereof to the housing and

sealingly articulated to the stem member and supporting the stem member in an essentially

upright position;

said diaphragm being deformable between a first retracted position in which the irrigation

head is retracted within the housing and a second operative position in which the irrigation head

projects from and outside the housing, the stem member being radially supported to enable only

sliding displacement in an axial direction from the inlet chamber towards the irrigation head

without any tilt or rotation,

wherein the diaphragm is fully contained within the housing in both the first and

second positions.